

MHREC, BAGALKOT



Centre Name	:	Main Horticultural Research and Extension Centre, Bagalkot
Address	:	MHREC, Main campus, Udyanagiri, Navanagar, Bagalkot-587104
Year of Establishment	:	2011
Area	:	121.68 ha
Soil Type	:	Clay loams to sandy- clay loam in texture
Latitude	:	16°12'N
Longitude	:	75°45'E
Altitude	:	542m above sea level
Average maximum temperature		37.30°C
Average minimum temperature	:	15.10°C
Average Annual rainfall	:	526.32 mm
Average Relative Humidity	:	Forenoon-77.83% Afternoon-54.03 %

- 1) Location:** The Main campus of university having the MHREC Office, is located about 10 km west of Bagalkot Railway Station (16°12'N, 75°45'E) on Raichur –Belagavi state highway. The MHREC Office initially started with six different gardens which were transferred from Bagalkot Town Development Authority, Bagalkot for conducting research on different crops and also for use of practical teaching.
- 2) Brief description of the soil:** The soil is typically shallow to medium in depth, moderately drained to well drained, clay loam to sandy-clay loam in texture, and low to medium in organic matter and low in potassium having low water holding capacity. The soil reaction (pH) of the soil is neutral in nature with pH ranging from 6.98 to 7.26. The electrical conductivity ranges from 0.208 to 0.503 dS/m. The organic carbon content ranges from 0.49 to 0.57 per cent where as the available nitrogen content ranges from 109.7 to 127.7 kg/ha, available P₂O₅ ranges from 9.6 to 14.3 kg/ha where as available K₂O ranges from 177.4 to 206.9 kg/ha. Since these soils were left uncultivated for many years and were subjected to erosion losses, the university has initiated several measures such as land development, land levelling, bunding, green manuring, application of tank silt and farm yard manure etc.

3) Research centre mandate: The mandate crops of this region are Pomegranate, Sapota, Mango, and Guava, Custard apple, lime, major flowers, and ornamental plants, medicinal and aromatic plants

Achievements:

1) Technologies developed

Sl.No	Crop	Details of the technology op
1	Rose	Rose variety Avelench produced 255 flowers/m ² which is suitable to grow under natural ventilated poly house in Krishna command area.
2	Gerbera	Among gerbera genotypes evaluated under naturally ventilated polyhouse Pole Ice (195 flowers / m ²), Iceberg (194 flowers / m ²) and Rosalin (212 flowers / m ²) showed better performance in terms of yield and quality.
3	Drumstick	High density planting of drumstick at 3x1.8m (1984 plants/ha) produced fresh pod yield of 65t/ha as against the recommended spacing of 3.25x3.25m.
4	Coleus	In organic coleus cultivation, application of FYM @10t/ha or vermicompost @ 6.25t/ha in addition to recommended FYM (10 t/ha) gave 17.16 and 16.08q/ha dry tuber yield respectively.
5	Onion	Oxyflurofen 0.08 kg/ha (Pre emergence) followed by Oxyflurofen 0.25 kg/ha (post emergence) between 30-40 DAS for weed management in drill sown onion.
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7	Grape	Foliar application of Humic acid @ 300 ppm after fruit set at 15 days interval for 3 times to improve yield and quality.
8	Pomegranate	Foliar application of Humic acid @ 350 ppm after fruit set at 15 days interval for 3 times to improve yield and quality.